

WHAT IS CLAIMED IS:

1. An adjusting method for an optical disc apparatus, comprising:
 - mounting an optical disc rotating mechanism to a main chassis;
 - providing a rotary member having
 - a rotation axis held in a fixed position relative to the main chassis, and
 - a plurality of first engagement parts arrayed on a circular arc about the rotation axis;
 - rotatably connecting a subsidiary chassis to the main chassis, the subsidiary chassis having an operating part disposed between the main chassis and the rotary member;
 - supporting an optical pickup to be slidable for movement, by the subsidiary chassis;
 - disposing an elastic member between the main chassis and the subsidiary chassis, the elastic member biasing the operating part of the subsidiary member toward the rotary member;
 - providing a projection to one of the operating part of the subsidiary chassis and the rotary member, the projection projecting toward the other thereof;
 - providing a helical inclined surface to the other of the operating part of the subsidiary chassis and the rotary member, the inclined surface receiving a biasing force from the elastic member, to be brought into pressing contact with the projection, the inclined surface being configured, as the rotary

member is rotated, to slidingly contact the projection, changing a position of the operating part relative to the rotary member; and

providing a second engagement part to one of the subsidiary chassis and the elastic member, biasing the second engagement part toward the rotary member, the second engagement part being configured for engaging with an arbitrary one of the plurality of first engagement parts to prevent rotation of the rotary member;

rotating the rotary member against a biasing force of the second engagement part, so that the projection is relatively slid to move on the inclined surface, changing a relative position between the rotary member and the subsidiary chassis, changing an inclination of the subsidiary chassis relative to the main chassis; and

holding the changed inclination by an engaging force between the second engagement part and the arbitrary first engagement part.

2. The adjusting method as claimed in claim 1, further comprising:

forming a hole in the operating part of the subsidiary chassis;

extending a shaft body inserted into the hole, from the main chassis,

and

supporting the rotary member to be rotatable by the shaft body.

3. The adjusting method as claimed in claim 1,

wherein the rotary member has a substantially annular gear and a cam,

the plurality of first engagement parts are consecutively ring-like disposed on an outer circumferential surface of the gear, and

the cam is integrally extended from the gear to form the inclined surface.

4. The adjusting method as claimed in claim 1, wherein the elastic member comprises a plate spring and the second engagement part is integrally formed with the plate spring.

5 The adjusting method as claimed in claim 1, wherein the second engagement part is integrally formed with the subsidiary chassis.